

BR compositions of this invention the molar ratio of epoxy to carboxyl is in the range of 0.5/1 to 6/1. PT-810 (TGIC) triglycidyl isocyanurate resin from Ciba Geigy Corp. was used as a crosslinking agent for the polyesters. Choline chloride (0.18%, Actiron CT-6 from Synthron, Inc.) was used as a catalyst. Flow control agent (Modaflow Powder III from Monsanto) and degassing agent benzoin (Uraflow-B from GCA Chemical Corporation) were also incorporated into the coatings. Pigmented powder coatings based on R-960 TiO₂ (DuPont) at a pigment/binder ratio of 0.7/1 by weight were also evaluated. The final powder coating compositions are listed in Table 2.

Please replace Table 2 which appears on page 10 with the following table.

Table 2. Powder Coatings Formulations

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Ingredients (wt%)	T-00	T-15	T-30	T-50	T-100	PT-00	PT-15	PT-30
TE00	91.13	----	----	----	----	54.55	----	----
TE15	----	91.70	----	----	----	----	54.89	----
TE30	----	----	91.73	----	----	----	----	54.91
TE50	----	----	----	91.26	----	----	----	----
TE100	----	----	----	----	91.35	----	----	----
TGIC PT-810	7.11	6.54	6.51	6.98	6.90	4.26	3.91	3.90
DuPont R-960 TiO ₂	----	----	----	----	----	39.40	39.40	39.40
Choline Chloride	0.18	0.18	0.18	0.18	0.18	0.12	0.12	0.12
Modaflow Powder III	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Benzoin	0.40	0.40	0.40	0.40	0.40	0.50	0.50	0.50
Total	100	100	100	100	100	100	100	100

Please replace Table 8 which appears on page 16 with the following new table:

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Table 8. Front/Reverse Impact Resistance of Polyester/TGIC Powder Coatings

Film Thickness (mil) (mm)	T-00 (in.lb.) (N-m)	T-30 (in.lb.) (N-m)	T-30 (in.lb.) (N-m)	T-50 (in.lb.) (N-m)	PT-00 (in.lb.) (N-m)	PT-15 (in.lb.) (N-m)
1.4-1.6 (0.036-0.041)	---	---	---	---	130/130 (14.7/14.7)	160/160 (18.1/18.1)
1.8-2.0 (0.046-0.051)	160/160 (18.1/18.1)	160/160 (18.1/18.1)	160/160 (18.1/18.1)	160/160 (18.1/18.1)	---	---
1.9-2.2 (0.048-0.056)	---	---	---	---	100/90 (11.3/10.7)	160/160 (18.1/18.1)
2.2-2.4 (0.056-0.061)	140/140 (15.8/15.8)	160/160 (18.1/18.1)	160/160 (18.1/18.1)	160/160 (18.1/18.1)	---	---
2.4-2.6 (0.061-0.066)	---	---	---	---	80/60 (9.0/6.7)	160/160 (18.1/18.1)
2.6-2.9 (0.066-0.074)	110/100 (12.4/11.3)	160/160 (18.1/18.1)	160/160 (18.1/18.1)	160/160 (18.1/18.1)	---	---
3.3-3.5 (0.084-0.089)	60/30 (6.7/3.4)	100/80 (11.3/9.0)	130/130 (14.7/14.7)	160/160 (18.1/18.1)	---	---